



KEY-KLIX

SANTA BARBARA AMATEUR RADIO CLUB

MAY 1995



SANTA BARBARA AMATEUR RADIO CLUB

An Educational Charitable, Non-Profit Corporation
Founded in 1920 - An ARRL Special Service Club, #1737

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Key-Klix Editor	Lou Dartanner, N6ZKJ	967-4859
Key-Klix Printer	Lorin McRae, WA6ISS	967-8978
Membership Data Base	Mack Stanton, KD6NBZ	569-1152

SBARC Club Station: behind the Red Cross, 2707 State St. (corner Alamar Ave.)

Club Station hours: Saturdays, 9 a.m. to noon and Mondays 7 to 9 p.m.

SBARC Repeaters:

Call	Location	Frequencies/PL 131.8	Manager	Phone
K6TZ	La Vigia Hill	146.19/146.79	Pat Lennon, WA6QBT	687-5575
K6TZ	La Vigia Hill	145.61/SBA:K6TZ-13	Tom Cross, KN6VV	563-6346
K6TZ	La Cumbre Peak	145.05/SBA05 K6TZ-2	Tom Cross, KN6VV	563-6346
K6TZ	BBS @ KN6VV	145.69 TZBBS:K6TZ	Tom Cross, KN6VV	563-6346
K6TZ	Santa Cruz Island	222.32/223.92	"Jug" Jogoleff, WA6MBZ	966-4808
K6TZ	La Cumbre Peak	222.48/224.08	"Jug" Jogoleff, WA6MBZ	966-4808
K6TZ	Santa Ynez Peak	222.52/224.12	Steve Bauer, WB6FZU	682-3063
K6TZ	UCSB	222.56/224.16	Bill Talanian, W1UUQ	964-7432

Notes:

- SBARC meetings held on the third Friday of the month, September through May, at 7:30 p.m. Location and topic are announced in *Key-Klix*, on the Club phone, and on the ARES net every Monday at 7:30 p.m. on 146.19/.79.
- For Club news or to leave a message, call 569-5700
- Swap net held every Monday evening on 146.19/.79 following the ARES net.
- Talk-in to Santa Barbara events usually available on 146.19/.79.
- Material contained in *Key-Klix* may be reprinted provided credit is given to *Key-Klix* and the author, except material published by permission of a copyright holder.

Cover: Our Membership Director, Rhona Anderson, KE6FKA, is ready to convince you of the advantages of SBARC membership. Her goal: 500 by year's end! Photo by Austin Rudnicki, K6IA.

PREZ SEZ

"How was school today, son?"

"Boring, as usual."

Have you ever found yourself in this conversation? It's all too commonplace today. How can subjects taught in school compare in excitement with games played on computers at home? Or watching television? I mean, how much personal satisfaction is there in extracting the square root of 8 anyway? Of course, date memorization is always a kick. For our youngsters to look forward to school each day, they must be both challenged and rewarded. Yes, kids need challenging activities at school.



Enter Amateur Radio. By golly, that would do it. What? Yes, a school radio club. I haven't heard of one of those in years. Just picture those kids working on projects with similarly interested kids. It's not enough to drag them to our Club meetings and bore them to tears with stuff way over their heads, not to mention dragged-out Club business. Even if they see something of interest, the initial excitement will almost always blow over without constant reinforcement -- the school ham club. And besides, perhaps we (old timers) don't relate so well to youngsters. Kids don't need so many old timers. What they do need is peers -- other kids to help them, to talk to, to enthuse, to share excitement.

Oh, sure, they have computer clubs in school -- and they visit each other's homes and play with their computers. They talk about computers, read about 'em, they program and swap programs. In fact, they break the protection on programs and then they swap them. Swell! They get on the phone and break into bulletin boards -- into banks -- into military base computers. Man, that's living!

Amateur Radio has every bit as much excitement as computers. Computers are no competition to working a rare DX contact -- making a DX aurora contact on two meters -- getting a new country via OSCAR -- working a new state on 10 GHz from a mountain top -- operating in a DX contest -- operating QRP DX after biking in with everything on your back -- getting a good picture on an SSTV screen from a new country -- going on a DXpedition and visiting 9B1MM in Katmandu or 9M6MO in Kota Kinabalu -- working South Africa with a 2M handie-talkie through a crossband repeater -- getting a call on 20M from King Hussein -- and yes, hooking your computer to your radio and sending a packet message on 220 MHz to a gateway station and having it sent via 20M to your friend in Hong Kong!

Yes, newspaper and TV coverage of our Field Day activities may help strike a spark of interest in kids, but without school ham clubs to follow up, it's a waste of time. Our public relations in parades, in the malls, and in other community events is good, but most of this will be wasted if there isn't the follow-up -- the school clubs.

This won't be as hard as you think. But it will be more exciting and, yes, more frustrating, than anything you've done before in Amateur Radio. Of course, it would be far easier to never embark on such an ambitious venture. You might ask, "Why bother?" Why bother, indeed! Just where do you think our future hams will come from -- my classes? What is the average age of hams these days? I've heard it's fifty something. That's too old. Let's make it an SBARC project to get a ham club started in every local junior high school!

All we need is a small SBARC delegation to talk to the school principals and explain the importance -- to our country and to the kids -- of getting them interested in a high-tech hobby such as Amateur Radio. Get the principal to allow weekly club meetings during school hours, let's say, instead of study hall. The next best time would be after school. And SBARC would supply the club advisors (no increase in principal's payroll). We could offer code and theory sessions, kit building, operating, antenna building -- whatever it takes. I hear your heart pounding.

If a school principal offers much resistance to the idea, we could remind him (her) that the lack of young radio amateurs has resulted in America falling far behind in engineers and other technical experts. Look how Japan and others have taken away our consumer electronics industries from us. We can reverse this trend only by getting our kids interested in high-tech careers. *Every* school in Japan has an active ham club. Were you in a ham club in school? Do you remember how much fun it was? Were you bored? It's not fair to our youngsters to deprive them of the same kind of thrilling experiences we had as kids, not to mention the advantage to our country.

OK then, it's settled. We're going to do this! Get in touch with me. Let's sit down and talk it over. This will be great!! What a way to celebrate the 75th Anniversary of *our* Club -- by helping our youngsters.

Before I forget, we have a handful of young hams in our Club now and a couple more taking their VE exams on May 13. I feel, the Board concurs, that we should provide the time for and encourage a weekly one hour Young People's Net -- say, Tuesday evenings from 1900 to 2000 hours. They are our future, folks. If we don't do all these things for our kids, who will? Let me hear from you.

"SBARC '95 -- Be A Part Of It!"

73, Darryl Widman, KF6DI

MAY 19, 1995 SBARC MEETING

Who: Fried Heyn, WA6WZO, ARRL Southwestern Div. Director

When: Friday, May 19th, 1995, 7:30 p.m.

Where: Santa Barbara County Schools Auditorium
4400 Cathedral Oaks Rd.
Santa Barbara, CA

QST magazine, the *ARRL Repeater Directory*, the *ARRL Radio Amateur's Handbook*, and other publications are one facet of the Amateur Radio Relay League most people are familiar with. Did you know NTS was started by the ARRL? The ARRL has since advanced from merely relaying messages by radio to publishing, training, lobbying the FCC for ALL hams, and representing all hams in Washington. This is your once-a-year opportunity to find out what the ARRL is all about, as well as what is happening in the world of ham radio from "The Man" himself. A dynamic speaker, Fried is the ARRL Director of the Southwestern Division with a wealth of information to share with us, including a short video about what Field Day is all about.

This is also our traditional "Old Timers Night" where we delight in hearing about how ham radio was in the early days from those who have "been there, done that" and are still doing it! What happens traditionally? Come on out to find out and hear from those who have been involved in ham radio since the early days.

Did you know that May is the 75th anniversary of the founding of SBARC? It is only fitting to have a party, complete with cake, to celebrate!

How did you like having icy cold soft drinks available at the last meeting? As with the coffee, donations keep it going! Direct any comments about your favorite soft drink you would like to see there to Marvin (KE6HTS) or Barbara (KE6OTF) Johnston. We strive to please!

Thanks to Bruce Gordon (N6OLT), Barbara Mickelson (KD6HKR), Kathy Bachus (KF6WB), and Barbara Johnston (KE6OTF) for bringing refreshments for the April meeting!

Marvin Johnston, KE6HTS

CQ FD CQ FD CQ FD **FIELD DAY 1995** CQ FD CQ FD CQ FD

Field Day 1995 is the last weekend of June, the 24th-25th. This is one of the big events in Amateur Radio each year, and one of the best opportunities for the general public to learn more about what we do. Field Day is also a lot of fun for those who participate in it.

SBARC will again be operating from Ellwood School, which is located on Hollister Avenue, about 3 km west of Storke Road. Setup will begin Friday afternoon, and our 24 hours of operation will commence at 11 a.m. local time on Saturday.

To make Field Day a success requires that a lot of people pitch in and help. There are lots of little tasks to do. What would you like to do to participate? Do you want to sign up to operate one of the stations during a portion of Field Day? Can you help with the setup or cleanup of the site? Do you want to transport or raise towers? Do you want to greet visitors during the hours the ARES van is open? Or coordinate publicity beforehand? Do you want to be a control operator for soon-to-be hams who want to operate their first Field Day?

Field Day can be rewarding in so many ways. Don't miss out. This is a particularly significant year for SBARC. Be a part of the celebration of the Club's 75th year.

To prepare for Field Day, a number of events are planned:

- From 9-11 a.m. on Saturday, May 20th at the Santa Barbara Middle School (where the licensing classes have been meeting) there will be an *Introduction to Contesting* class. If you are a new ham or perhaps an experienced ham who hasn't done much contesting, this course is for you! Perhaps you will have just earned your new license, or an upgrade, at the VEC exam the previous week. Come and learn how to do something even more fun than T-hunting.
- At 7 p.m. on Monday, May 22nd, at the Goleta Library on North Fairview, there will be a meeting of Station Managers and other individuals involved in the setup and tear-down for Field Day.
- Thursday, June 15th at 7 p.m. at the Goleta Library, there will be a meeting of **all individuals** who are going to work or operate on Field Day. Some of the Club's expert testers will go over the fine points of serious contesting, and we will make sure that the operation plan is clear.

If you have questions about how you can participate, or just want to call and sign up to work on Field Day, please do so soon. Field Day is not very far away, and we want to know that there are not just a handful of us looking forward to it!

73s, Dave and Matthew Probert

KE6JRS and KE6JRR (968-5110 or probert@cs.ucsb.edu)

AERIAL TOPICS

By Dale Hunt, WB6YU/7

How do you talk to someone on the other side of a mountain? Use a repeater, of course. What if there isn't one that works? Do it the old way: use HF. To do this reliably requires some knowledge of propagation.

Groundwave propagation provides good local coverage for AM broadcast stations, but even a 10 KW station may be marginal at 50 miles, and performance drops off as you increase in frequency. Ten or 20 miles is doing well on 80 meters over flat ground.

The solution is to make use of the great reflector in the sky: the ionosphere. If we assume a typical height of 200 miles, then a bit of geometry will show that, to talk to a station 100 miles away, we need to launch our signal at an angle of over 70 degrees above the horizon. The closer the station, the higher the angle. In general, we want to aim our signal STRAIGHT UP for maximum performance out to a few hundred miles. Remember this; it's important!

Does this mean I should point my 2-meter beam straight up? Actually, no. The ionosphere works differently for different frequencies. If you made a variable frequency radar and aimed it up, you would find that low frequencies get reflected back, and high frequencies pass right through and out into space. The highest frequency that will reflect straight back down is called the "critical frequency." For good local communications, we need to operate BELOW this frequency.

The critical frequency is not constant. It depends on the time of day, location on the earth, amount of solar radiation, etc. Typically it is between 2 and 5 MHz at night and between 5 and 12 MHz during the day. It is lowest in the winter and at the bottom of the sunspot cycle. This supports the common ham wisdom of using 40 meters during the day and 80 meters at night. During these last few winters, however, the critical frequency never got up to 7 MHz during the day, and dropped below 4 MHz early in the evening. This meant we used 80 meters to talk around the state during the day, but in the evenings all we could hear on the band were 0s, 4s, and 5s -- nothing this side of the Rockies. What do we do now? If you've followed the discussion so far, you know the answer: use the next lower band. In this case, 160 meters, which gave excellent signals to those brave souls who ventured down that far.

What does all this mean in practice? First, for local coverage (out to several hundred miles), aim your antenna straight up. Fortunately, this is easier than it sounds, because a low horizontal antenna will have the desired radiation pattern due to reflection from the ground. How low? A quarter wavelength is great -- that's 60 feet on 80 meters, or 30 feet on 40 meters, so "low" here is a relative term. Actually, anything under $3/8$ wavelengths will work fine; this sets a maximum usable height for 40 meters of 45'. At the other end of the

scale, antenna efficiency drops off sharply for antenna heights less than 15' on 80 meters, but even a wire laying on the lawn will work.

What kind of antenna? Dipoles and horizontal loops work fine. VERTICALS DO NOT! - they have a null at the end, which is straight up, where we want maximum radiation. A mobile antenna will work best if it is laying sideways instead of straight up (or you can make a dipole out of two such antennas). Very small loops (less than 0.1 wavelength in diameter) should be mounted vertically, as (unlike quads) they have a null perpendicular to the loop. Broadside and collinear arrays can be laid out horizontally to give vertical gain even at low heights.

When choosing a frequency, get a sense of the band conditions. If all the stations you can hear are a long way away, check the next lower band. If the band is totally dead and quiet, try it and see, then move up if it doesn't work. As a rule of thumb, the critical frequency is roughly a quarter of the Maximum Usable Frequency. This means that if 20 meters is open, 80 should be usable locally. If the MUF has dropped below 14 MHz, then the critical frequency has probably dropped below 3.5 MHz. Similarly, if you can hear several of the 10 meter beacon stations, the critical frequency is probably above 40 meters. Fortunately, the critical frequency rarely gets down to 2 MHz, so 160 meters will almost always provide the needed coverage when the other bands go out.

P.S. It's good to be back in the pages of *Key-Klix*. I hope to be able to keep it up on a regular basis. I can be reached for comments at: 13735 NW Westside Road, Yamhill, OR 97148, or by packet at WB6BYU @ KG7LX. OR. USA. NOAM.

Editor's Note: It's great to have Dale back, not only in the pages of *Key-Klix*, but as a SBARC member! He was an active member of the Club for many years. He's also volunteered for the Elmer's Auxiliary as a long-distance correspondent! If you have any questions about antennas, give Dale a call and maybe he'll even write a column about it! Welcome back, Dale!

SILENT KEYS

Richard McKowen
NH6NR

Burl Ives
KA6HVK

A DIFFERENT VIEW

By Art Harris, N6GAT

Most of us have been to the SBARC BAZAAR. And, for that matter, to any number of other such grand events, like swap meets and garage sales. At any one of these events, you'll find interesting items. And, of course, items so far afield from what you might be looking for that you wouldn't let the seller GIVE the things to you!

Well, what about a different viewpoint. What if, instead of seeing just that old television set, obviously defunct by virtue of the missing tube(s) . . . you saw the package containing the power supply you need to finish off a pet project?

Old printed circuit cards are really junk, right? Wrong! They're a gold mine of all manner of parts, like connectors, capacitors, resistors, and . . .

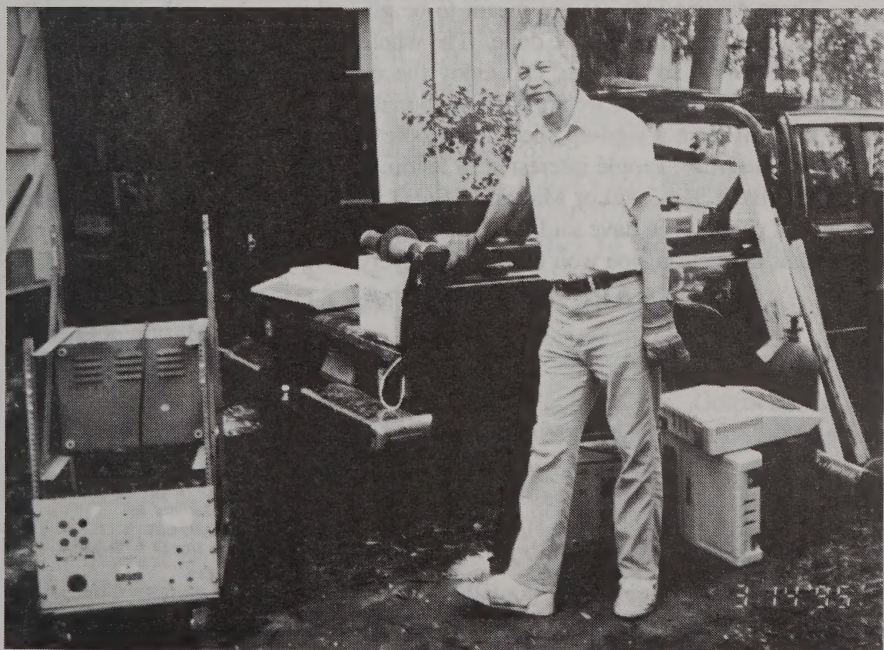
So are the chassis and the old radio and TV sets which have been donated to the Bazaar. They're not just junk, but surprise packages for the curious and discerning. They're filled with gifts of components for the adventurous.

There are so many unusual and interesting items to be found at the SBARC BAZAAR, hidden within other perhaps dreary looking things. Use your imagination. See beyond the familiar outer wrapping to the prizes within.

And you'll find all of this adventure, and so much more, at the

SBARC BAZAAR

July 22nd, at the Elks Lodge in Goleta. All the details in the Bazaar flyer.



HAMFEST

AUGUST 13, 1995

This year's Hamfest is starting out VERY well. The main prizes have been selected and are: 1) A Kenwood TS-50 HF transceiver, 2) a Yaesu FT-2500M 2-Meter mobile transceiver, and 3) a Yaesu FT-11R 2-Meter HT. Flyers are being prepared and will start being distributed in the next couple of weeks. We still need people to take care of various functions. To give a better idea of what still needs to be done, the job descriptions for the open positions are as follows:

Publicity - Coordinate getting information about Hamfest events, getting flyers published, get press releases out to magazines such as *QST*, *Worldradio*, *Nuts & Volts*, etc.

Swap Tables - Contact vendors and sellers, assign stalls, and oversee the activity during Hamfest.

Activities - Contact people to set up demonstrations, arrange demonstration times, and get the appropriate information to the Publicity chair. These demonstrations include such things as ATV, packet radio, and other such things hams would be interested in seeing.

Setup/Cleanup - Get a group of people together to help set up the area before the event and help clean up after Hamfest is over.

These descriptions are not meant to be all-inclusive, but rather to provide guidelines of what needs to be done. The whole idea here is "many hands make for short work," so everyone can enjoy the event. With this being the 75th Anniversary of SBARC, we are striving to make this the best Hamfests ever!

We will have a sign-up sheet for people interested in helping at the next SBARC meeting. People interested in lending a hand can also contact Dennis (WB6OBB) at 966-7060 or Marvin (KE6HTS) at 687-8881. We already have names of people who have said they will help on the various functions, so if you can chair a function, you won't have to do everything yourself!

SBARC '95 - BE A PART OF IT!

Marvin, KE6HTS



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SBARC OPERATIONS

Saturday, April 8th. Amateur radio operators secured the success of another event -- the Santa Barbara Chardonnay 10 Mile and Gold's 5-K Run. Greg Martin, the Santa Barbara Chardonnay sponsor, has worked with SBARC a number of times and knows what an asset we are in providing communications and helping an event run smoothly and safely. Thanks to all our field operators: Austin (K6IA), Emmett (AB6GN), Chuck (KE6JLV), Desi (KB6HGB), Ted (KB6OAK), Parkie (N6XGO), Marie (N6WEH), Neil (KE6DCJ), Tiffany (KE6JSC), and our bicycle rover Steve (KD6VEX). Thanks also to our net controllers Hubert (KC6NAH) and Jack (WA6DQK)!!

Saturday, April 29th. The March of Dimes Walk-A-Thon was a great success. Although the event sponsor Lucinda Connelley said many items fell through at the last minute, the SBARC team of operators did not. We were there bright and early at 6:30 in the morning ready to help. The event was carried out efficiently and professionally and Lucinda and Scott, the event sponsors, thanked SBARC publicly for all the wonderful behind-the-scenes work we have done for the March of Dimes. In addition, SBARC was listed on their publicity signs posted on the walk, recognizing SBARC as a community contributor to the Walk-A-Thon. There were some great photos taken of Amateur radio operators and key community officials at the picnic celebration after the event. We hope to have some for next month's *Key-Klix*.

We would like to acknowledge the following operators for their time and expertise in this event: Bob (K6CZD), Calli (KD6OVS), Herb (N2BWV), Allen (WA6IDZ), Roy (KD6BXL), Neil (KE6DCJ), Tiffany (KE6JSC), and our Victory Van operator Emmett (AB6GN). We would also like to thank our net controllers Claude (KE6JSA) and Ken (KA6GJP).

*THANK YOU, OPERATORS, FOR YOUR CONTINUED SUPPORT
OF SBARC AND OUR COMMUNITY!!!!!!*

Community Events Provide More Opportunities To Work Your Radios!!

We have many more opportunities for all of you operators out there to not only use your radios, but to contribute to your community in the process. Please sign up for one or more of the following events:

May 20, Saturday, American Diabetes "Tour de Cure," Goleta Beach.

June 4, Sunday, Santa Barbara County Junior Triathlon at UCSB Campus.

August 4, Friday, Fiesta Parade, downtown Santa Barbara.

August 5, Saturday, Children's Parade/Fiesta, downtown Santa Barbara.

August 19, Saturday, MS "Bike-Along-The-Beach" at Leadbetter Beach.

August 26, Saturday, Santa Barbara County Sr Triathlon at East Beach.

December 3, Saturday, Santa Barbara Children's Parade, downtown Santa Barbara.

Call Tiffany (KE6JSC) or Neil (KE6DCJ) at 964-6936 to sign up for the events. If you are new and have never worked an event, we will be more than happy to train you. Working events is a great way to get involved in the Club.

TO ALL AMATEUR OPERATORS: All of the above events will use the K6TZ 146.79 MHz repeater. We appreciate your cooperation in relinquishing the repeater for public service usage. In the event you need the repeater for an emergency, please contact net control, who will help you.

Tiffany, KE6JSC and Neil KE6DCJ

QST FROM THE MEMBERSHIP DIRECTOR

Don't forget about our 75th Anniversary. It's really amazing isn't it? What a wonderful Club we have. At the moment we are at 379 members and still growing. That makes our goal of 500 seem not so far away. So come on! Jump on our member hunt and help us to attain our goal.

I have the 1995 Membership Rosters for sale now. They are, as usual, \$1.00 each. We sold quite a few at the April meeting. We also sold a good number at the April Board meeting. We hope to get another one out in August. That would have all the members listed from now through August in it. Hurry and get yours now; we have a limited supply.

THANKS to the April Lickum-Stickum crew who helped collate, fold, staple, and un-mutilate the April *Key-Klix*: Ralph (N6HUO) and Elsie (KA6WBS) Kelly, Jack Goldsworthy (KA6EPF), and Bruce Gordon (N6OLT). A good time was had by all!

Lou, N6ZKJ, *Klix* Editor

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OLD FRIENDS ARE THE BEST FRIENDS

By Austin, K6IA



It was a great pleasure last month to welcome former *Key-Klix* Overseas Correspondent and Bureau Chief for Christchurch, New Zealand, back to the K6IA Galactic Headquarters. Peter Rogers, ZL3NH, and his charming XYL Mary stopped in for a few days en route into a well-planned six months vacation, and made themselves at home as only friends who can consider themselves part of the family can do.

It took a little while to retune my ears to Kiwi English, but no time at all to enjoy their company and their augmentation of the regular culinary staff. Wish they could have stayed longer, but we'll see them again another time, I'm sure!

We met back in October, 1980, when Ruth, KA6SDN, and I sallied forth on our first Great Adventure. At that time, Peter was editor of "Break-

In," the New Zealand National Amateur Radio magazine, and an avid correspondent. When I telephoned to ask directions to the N.Z. telecomms office in Christchurch (to get my ZL3AGL call), Peter's first question was, "Where are you?" He and Mary arrived in very short order to welcome us in person and that friendship has deepened over the years.

RIGHT AFTER THE 'QUAKE

Now that the 'quake has gone and has taken its threats with it, I find myself invested with the knowledge which helped to sustain me through the terrors of that experience. I will list the most important of them for you to commit to memory at once, so that you, too, can experience the same terrors....

Earthquake Preparedness Rules

1. Have a flashlight around at all times. It doesn't matter what you have it around (the reason for this is #2, below), but do have one around.

2. Make sure the batteries are fully charged...you do this by keeping them in the charger and not in the flashlight. This is why it doesn't matter *where* the flashlight is. It just has to be *around* (see #1, above).

3. Leave protective footwear in the closet, where it will be safe during the 'quake. After all, if you were able to get to the footwear and put it on, how could you expect to locate things (like broken glass) in the dark (see #1 and #2 above).

4. Make certain that the tools necessary to turn off the flow of gas and water and electrons (nasty buggers, see #6 below) are within reach during all earthquakes (see #1 and #2 above). You won't have to know how to turn anything off, or where to turn things off because you won't....ah....(see #5 below).

5. Turning off the gas: If you follow the basic rules (#1 and #2 above), you won't have to worry about turning off things like gas valves and water lines and electric mains (even if they are leaking nasty things like combustible gas, or the last of your drinking water, or electrons, all over the place) because you won't be able to find either the leaks or the tools with which to work on them. This brings us to safety rule number 6.

6. You will be shocked and dismayed to find what the California Edison people will charge you to clean up after your 'quake. Retrieving all of those little electrons, once they've had a taste of freedom, is a rough job. That's why Cal Ed insists that their people wear all of that protective gear, too. Just so they don't get bitten by those frisky, escaped electrons.

7. The same argument may be made for your radio gear as for the flashlights, in...how did you guess? #1 and #2 above.

8. (This page needs another rule like most of us need another set of teeth...but there is still some page left over, and the editor likes things to be rounded out). Where were we? Oh...8. What the heck. You might just as well stay in bed...if you follow the rules (see #1 and #2 above).

Keep 'em shakin'!

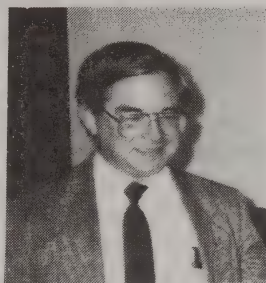
Art, N6GAT

BEGINNERS' T-HUNT, APRIL 8th

We had an excellent turnout for the Beginners' T-Hunt, with 10 of us showing up at the Stowe House parking lot. Darryl (KF6DI) went over the basics of using just an HT to search out the hidden T and we all had a chance to practice a bit with the transmitter in sight before the torture...er...fun began! The first T was hidden in front of the Stowe House on the railroad tracks under a box. With people going out in all directions, it took a while for everyone to find the T, but perseverance prevailed and it was found by all. The honor of finding it first went to Bob Tangle (WD6ESU). The horizontally polarized rubber ducky gave the RF signals a great chance to bounce around and confuse everyone. With everyone wanting to hunt rather than hide, Darryl turned on a second hidden transmitter previously hidden in back of the Stowe House. With signals again bouncing every which way, people took off in all directions, most of them wrong! However, after a proper opportunity for everyone to get back on track, Darryl began giving some hints, like "It is not hidden in that field," and even more blunt, "You won't find it out there!" With the typical stubbornness of good T-hunters, along with the axiom of "never believe anything a T-hunter says," it took a while for everyone to finally get over to the right area. However, the signals (and hints) finally prevailed and eventually the hidden T was found by Mike Leska (KD6CVS). We ended up about 9:45 and headed over for pizza and discussion; a good ending for a fun time!

With the interest shown in this beginners' T-hunt, we will be putting one on for a while on the second Saturday of the month at the Stowe House on Los Carneros Road in Goleta. Everything will be done on foot, with no strenuous hiking, climbing, etc.; the intent is to practice skills for finding a hidden T, not to check out our physical conditions!

Marvin, KE6HTS



YOUR DESTINY

Watch your thoughts -- they become your actions.
Watch your actions -- they become your habits.
Watch your habits -- they become your character.
Watch your character -- it becomes your destiny.

73, de Harry, KE6EJU

UNITED AGAINST MALICIOUS INTERFERENCE

By Bill Talanian, W1UUQ

Director, Repeater Services

Our Club has so much going for it in this, its 75th year. The Club has grown over the years and we should be in our glory; but with each rose there are thorns. The best and worst behavior appears to be amongst us. For six long years, this Club has been the target of intentional jamming on the ARES net during official call-outs and net operations. In addition, the unpleasant "belching" has targeted prominent Amateur radio operators in the Club leadership. The League says, "If you ignore the intruder, he will generally go away." Well, this simply has not happened. Several articles in *Key-Klix* and Monday night ARES net announcements have been made to solicit a reasonable response from the perpetrator (cessation of the interference), but to no avail.

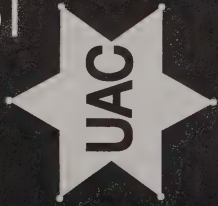
The latest malicious interference occurred on Saturday evening, April 29th, during a rescue operation for an injured hiker.

Evidence, data, and incident reports have been collected for several years by the "Project Pathfinder" team. This little-known group of radio Amateurs was selected for their expertise in various disciplines. With assistance from a number of agencies and community-based groups, the team plan was put into motion. Law enforcement, security specialists, and a psychiatrist helped build a profile. The accuracy of this profile should not be underestimated. Surveillance techniques involving transmitter identification and direction finding further reduced the field of suspects. The Amateur radio operators causing the malicious interference were generally identified. Most are "copy-cat" operators and have not been approached, as their actions were sporadic and inconsistent. In the meantime, we will be focusing our energy on a single individual who is the prime target.

The legal section of the Project Pathfinder team studied all local, state, and federal ordinances, laws, and rules and regulations to determine which were applicable and which would have the most severe impact on the perpetrators once they were identified. The team recognized the need for a definitive California Penal Code section to address this malicious radio interference. With the help of state legislators, effective January 1, 1995, Section 653t of the Penal Code now specifically protects Citizens Band and Amateur Radio frequencies. This protection enables our team to put evidence before local authorities (police, sheriff, and district attorney) for review. Investigation, evidence collection, and assistance from local government will now be possible and far more easier than going the federal route. However, evidence and other information collected under state law will be forwarded to the FCC and other federal agencies, who could take further action. Additionally, this does not mean that

UP TO

\$1000



REWARD!

**Malicious Interference With
Emergency Radio Communications**
South Coast Area of Santa Barbara County

Violation of Penal Code 653t

Reward will be paid for information leading to the arrest and conviction of the person(s) responsible for malicious acts of radio interference.

Rewards paid by code name. You choose location.

- Call Toll-free, 24 hours •

You don't testify, your name not asked, just give clues.
WE GIVE CASH!

1-800-200-TIPS
1-800-200-8477



UNITED
AGAINST CRIME
SANTA BARBARA COUNTY

the FCC has not been conducting its own independent investigation and electronic surveillance.

The toughest task was to put together the right technical equipment with the correct techniques. A number of you gave us some valuable clues and assistance. As the prime perpetrator knows, this type of evidence collection is very difficult to obtain. However, with the help of specialized equipment, a number of technical clues were combined with profiling. In addition, several "traps" were set (and sprung!).

Our problem has been, and still is, the ability to put forth the right type of absolute evidence on which the authorities feel they can get a conviction. When law enforcement feels comfortable with the amount and weight of evidence, they will proceed on their own. The Project Pathfinder team will continue in a parallel effort to augment the government agencies with their own areas of expertise. In addition to the evidence the monitoring team gathers, we ask that EACH AND EVERY ONE OF YOU continue to serve your Club by doing everything you can to provide information which may hasten the process of arrest and conviction of the single operator that perpetrates the malicious interference.

Regarding the United Against Crime poster in this issue of *Key-Klix*: it contains the words "information leading to..." If you have information that law enforcement can use, you are invited to call the Hotline. The information could be technical or physical, such as being an eye witness, etc. A call to the Hotline will protect your identity. Your name will not be revealed. Lastly, you may be eligible for a reward of up to \$1,000.

Our primary goal is to convince those involved to stop any and all intentional, willful, and/or malicious interference of any kind on our repeaters and digital data systems. Failing that, we will do whatever is necessary to expose and/or prosecute those who persist in this activity. If you know someone who is causing such interference, do everything in your power to stop this behavior. An offense could suddenly become a felony and you could find yourself an accessory to it.

The following agencies are thanked for their continuing support and assistance: Santa Barbara County Sheriff's Dept., Santa Barbara Police Dept., Santa Barbara County District Attorney's Office, Federal Communications Commission, United Against Crime, American Radio Relay League, and GTE of California Security Department.

* * *

WANT A GOOD DEAL?

For those of you who like to get a good deal . . . and love to rummage around in mountains of interesting things . . . we offer the upcoming BAZAAR, due in a very few months. And for more information on this fascinating event, see the flyer in this issue of the *Klix*!

EMERGENCY GENERATORS: THEIR CARE AND MAINTENANCE

Part I. The New Unit

By Jack M. Goldsworthy, KA6EPF

There is not a lot of difference in the maintenance requirements of all the portable (hi hi) generators on the market. There will be some minor differences between brands of engines and unit manufacturers as to the individual unit requirements. An example is that Onan requires decarboning after approximately 5,000 hours of operation; Honda doesn't. This leads to a very important point: *Obtain your owner's manual and maintenance instructions and read and follow them.* What I will tell you here is meant to be the basics and very general in nature. However, if followed these procedures will keep your unit running well for a long time.

New units need a break-in run. This should be at least five and preferably 20 hours under varying load conditions. You can spread this out over several days if you need to. This is when you will find out that the muffler supplied on the Briggs engine is really going to drive you and the neighbors nuts. Take it off and replace it with a better one that Briggs makes for about \$25.

Check all of the vital fluids in the unit. Watch out for dirt in any form and anywhere you can check. Fill the fuel tank with fresh fuel and start it up. Run the engine for about 10 minutes. Now apply a 50% load to the unit. Let it run this way for about an hour. Remove the load and let the unit continue to run for another five minutes. Some Honda units have a control that reduces the engine speed when there is no load; use it for the cool-down time; it is better for the engine. Stop the engine and prepare to change the oil. That's right! Drain and refill the crankcase oil. This will remove any contaminants that may have been left from manufacturing or shipping. Replace the oil with good quality multi-viscosity oil API service SH/CD and SG/CD. SAE. 10W40 for air cooled and 10W30 for water cooled. Start the engine and warm up again, then apply a 50% load and let the unit run for an hour or two. Now remove the load and shut down the engine. Check the oil level. If there has been a large change in oil level, see your dealer now. If not, start the unit, warm up for 10 minutes, and reapply load. Increase the load to 75% and run the unit for an hour. Shut down and check the oil again. If all is OK, start up and apply 100% load for another hour. Then reduce to 75% for an hour and 50% for an hour. Check the oil every time you change the % of load for the first five or six hours of run time. Never use less than 50% load and never more than 100% of continuous rated load.

A word of **caution**: a lot of manufacturers rate their units at full surge output, i.e., 5000W peak output. In the fine print, it will say 4200W continuous output. 4200W is **100% rated load** for all running conditions. This applies to

even the smaller 600W and 1000W units. Be careful; you can severely damage the alternator if you run at the peak output for more than a very short time.

Continue the varying load and oil checks until you have 10 or 15 hours on the engine. Then you may run at 100% for the last few hours until you reach 20 hours. Change the oil at this time. Run the engine briefly after this service. Shut the fuel off at the tank and allow the engine to empty the carburetor and fuel lines. Your unit is now ready to store away. Fill the fuel tank and add a stabilizer if you wish. Make sure that all parts of the unit are cool to the touch then cover it up and put it away.

To maintain the portable power unit in the best condition, every other month (six times a year) you need to do the following (takes one hour):

1. Check all fluids and turn on the fuel.
2. Start the unit and let it warm up for five minutes.
3. Apply 50% load for five minutes and 100% for 45 minutes.
4. Remove all load and let the engine run for three minutes.
5. Shut off the fuel at the tank and allow the engine to die.
6. Check all fluids, add fuel, and wipe off all dirt and spills.
7. When cool to the touch, store away.

Once a year, immediately after the above runup, you should change the oil and service the air filter and any other maintenance that your owner's manual suggests. Look for oil leaks (there should be none unless you spilled or over-filled something). They are indicators of problems. Try to determine why there is a dribble of oil where it wasn't last time you looked. Look for things that are loose, or just don't look right. Keeping your unit in good condition makes for a lot of happiness when the lights go out and you really need it and it starts on the first or second pull.

Some accessories you will probably need or want:

1. A running hour meter ac type. \$25.
2. A quiet muffler or quiet pack as offered by the manufacturer.
3. Electric start. Real easy on the back.
4. Load bank. See below.
5. One or more high-quality fuel storage cans that you can handle. They should be air-tight and full at all times.
6. A solar battery charger for those that opt for electric start.

A load bank is a large resistor or heating element that causes your generator to work at near or maximum output by using up all those watts that it can produce. You may be able to make a small one out of light bulbs. Be sure to construct it so that you can vary the power consumed. For larger ones, I have found that the old heating elements from electric dryers make an excellent choice and the mounting hardware usually comes with them. Construct yours so that you can switch in the amount of load that you need. Old space heaters are another source. What you are looking for is the heavy nicrome wire heating

elements and the hardware that mounts them to a box. From this you should be able to calculate within a couple of watts what you will need. Just remember Ohms law.

The idea here is to run the generator at a constant speed, load, and temperature. You want to do this for a time period long enough to burn off any contaminants in the oil and to use enough fuel to keep it fresh and to burn off any combustion deposits that might foul the engine. A one hour run at full load is the minimum time that will accomplish this. If you would like to see the effects of no load to full load, borrow your wife's meat thermometer and position it so that it is in the discharge air flow very close to the head but not touching any metal parts. Observe the temp at the end of the first 10 minutes of warm-up. Then apply 100% load and observe the temp again in about three minutes. Don't be surprised if you see a 30 to 50 degree rise. This is also the reason for keeping the engine and the cooling fins clean and free of obstructions. You can literally go into meltdown if things get too hot.

Another caution: If you need to operate the unit when air temp is over 100 degrees F, reduce the maximum load by 10% for every 10 degrees over 100. Try to keep things out of the direct sun and make sure that there is plenty of room for air movement.

If you have any questions, feel free to call or write. I am on A.O.L. Address is my call sign and you can reach me there.

* * * * *

LaBelle Sakhalin??

In the noble task of QSLing 100% to all Grom's contacts while he was here, Lorin (WA6ISS) printed a fine batch of cards with Grom's picture and on the back printed the usual data ending with "Vy 73s de Gromov, Vladimir F."

Ed, AH6LO, responded in kind with his picture card, duly addressed to Mr. Vladimir F. de Gromov. The picture? Oh, nothing much. Just the Royal Coat of Arms, Kingdom of Hawaii.

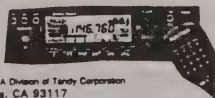
de K6IA

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Santa Barbara Amateur Radio Club

(An educational, charitable, non-profit corporation)

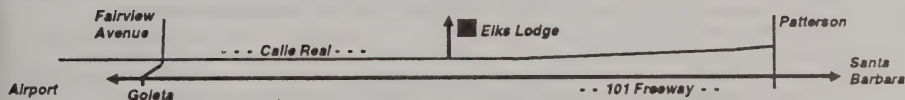
invites you to our
19th Annual

BAZAAR

and FOURTH micromegannual COFFEE & DOUGHNUTS sale sponsored
by our fearless, stalwart, ARES Team to keep you going!

Saturday, July 22, 1995, 9a.m. to Noon

At the Santa Barbara Elks Lodge No. 613
150 North Kellogg Avenue, Goleta



Bring Your Quality "Junque"

Help Support SBARC

(please also take a lot away!)

Buy, sell, donate... Transmitters, receivers, transceivers, electronic components and assemblies, radios, test equipment, computers and peripherals, meters, recorders, cable, wire, parts, hardware, power supplies, antennas, surplus military items, etc.

You can even bring back that thing you bought last year!

(Sorry, no TV sets, household appliances, big cabinets, etc.

Costs us too much to dispose of them afterwards.)

Talk-in on K6TZ repeater, 146.19/79

BAZAAR INFORMATION AND INSTRUCTIONS

Buyers:

- In the case of a Red Tag Item, make your deal with the seller. The seller or his representative must be present while the item is up for sale. This way, if there are questions or if the buyer wants to negotiate price, an immediate response is available.
- Bargaining for a good price is not only an acceptable practice here, it is encouraged. If you feel the item you want is priced too high, offer less. On the other hand, if you feel that an item is offered for too little, an offer of a higher price will nearly always be met with approval.
- Make sure that you contact one of our SBARC representatives to get a sales slip to cover each of the items you have picked up. In the case of a table-priced item, you must have a sales slip to cover that item before leaving the area of the table.
- Take the item(s) you want, along with the sales slip, to the Treasurer. When you pay for them, you must remove them from the sale area. It is unwise to leave purchased or 'spoken for' items in the vicinity of the sale area. They tend to get picked up and bought by other interested parties. Remember, if it's still there, it's still for sale.

Sellers/Contributors:

General Sales -

- These items are put up for sale at a price determined by the Club. The proceeds from this part of the Bazaar sales are considered to be a donation to SBARC.

Red Tag Sales -

- Should you have an item you don't want to contribute, but wish to offer for sale yourself, you may do so at a 10% sales commission to SBARC, payable to the SBARC Treasurer upon completion of the sale. Such items will be identified with a red tag showing your name/call and price, and placed on a separate table.
- Only amateur radio equipment will be allowed on a Red Tag table. Sellers are responsible for their material and they or their authorized representatives must remain in the area to make sales and to ensure that their items are not misplaced or stolen.
- All unsold items shall be removed by the contributor by the close of the Bazaar.

Vendors:

- Vendors of amateur radio equipment are welcome. A nominal \$15 for table space will be charged.

General Rules & Guidelines:

1. Once you've dug out the things you want to donate, no need to worry about how to get them to the Bazaar. Call Art Harris, N6GAT, at 968-4017 and he'll arrange for a pickup.
2. Since this event is being offered by a RADIO CLUB, it should not come as a surprise to you that it will be attended by people interested in RADIO GEAR and associated (electronic) items. Those things which it is impossible for us to sell such as carburetors, anvils, and other THINGS for which our customers do not offer a market, will simply not be accepted.
3. Committee members will be available to help sellers bring in items before the Bazaar and to help both sellers and buyers during the Bazaar.
4. For purposes of declaring "Gifts to Educational & Charitable Organizations," a receipt for donations will be provided by the Treasurer upon request.
5. Should you not wish to act as your own salesperson for Red Tag items, SBARC will provide sales and pricing assistance subject to personnel available.
6. Sales slips, tags and marking pens will be provided.
7. SBARC is not liable for the condition, safety hazard or performance of any item. All items are sold on an as-is basis. All sales are final: no refunds.
8. Buyers will receive a receipt for all items purchased and a buyer must have a sales slip as proof of purchase when leaving.
9. Please be advised that when donating an item for the Bazaar, you relinquish all control which you may have enjoyed prior to donating that item. Your wishes concerning the value of that item will gladly be heard, but control over how the item is handled for the sale is transferred to the Bazaar. If the donor wishes to retain ANY control over the handling of an item, it should be offered in the Red Tag category, with the restrictions (and advantages) attending that category of sale.

TRIP TO CATALINA ISLAND

Rhona Anderson, KE6FKA

The trip is Saturday, July 9th, and the cost is \$32.00 per person. Your \$32.00 is for a group rate on the fast boat to the island, which will take about one hour each way.

We would leave the Long Beach Catalina Terminal at 9:00 a.m. with our hosts and hostesses from the Catalina Amateur Repeater Association. They're the out-of-town Amateur group that turn out in such force every year for OUR Hamfest.

Once in Catalina, the day is yours to do with as you wish. However, there will be a bus trip available (optional) to take those of you who wish to go out to the airport to see the CARA repeater. This is a very scenic ride. Once there, you can purchase a buffalo burger for your lunch. The cost will be an additional \$10.00 round trip. The bus has to be special-ordered and space is limited, so hurry up with your reservations. Your \$10 will have to be paid to me by June 15th and no refunds after June 24th. Make your checks out to CARA and get them to me. My address is 830 Toro Canyon Rd., Santa Barbara, CA 93108. My phone number is 969-9178 if you have questions.

Now for the big one: how are we going to get from Santa Barbara to Long Beach? That will depend on how many of us will be going. I've called the bus companies and the rental will be around \$600 for a reclining seat type of bus. If we don't get enough of us to rent a bus, then we will carpool and need to locate those with vans or ? Of course, we'll pool our dollars and pay for the fuel. Anyhow, we'll be going for sure, so get your reservations in!

We would be leaving Catalina terminal at 6 p.m. to return home.

MANUAL WANTED

Jim (K6AIP) and Mary (WB6WCK) Counter are members of our San Diego SBARC chapter and are need of a manual. Perhaps one of our local members can help.

They have an old Clegg FM 76 220 radio which they cannot locate the manual for. After installing new crystals, it worked for a while, but now has a new unknown problem which they are trying to find and repair. Perhaps one of our *Klix* readers can help them locate a schematic or knows of someone experienced in repairing that model.

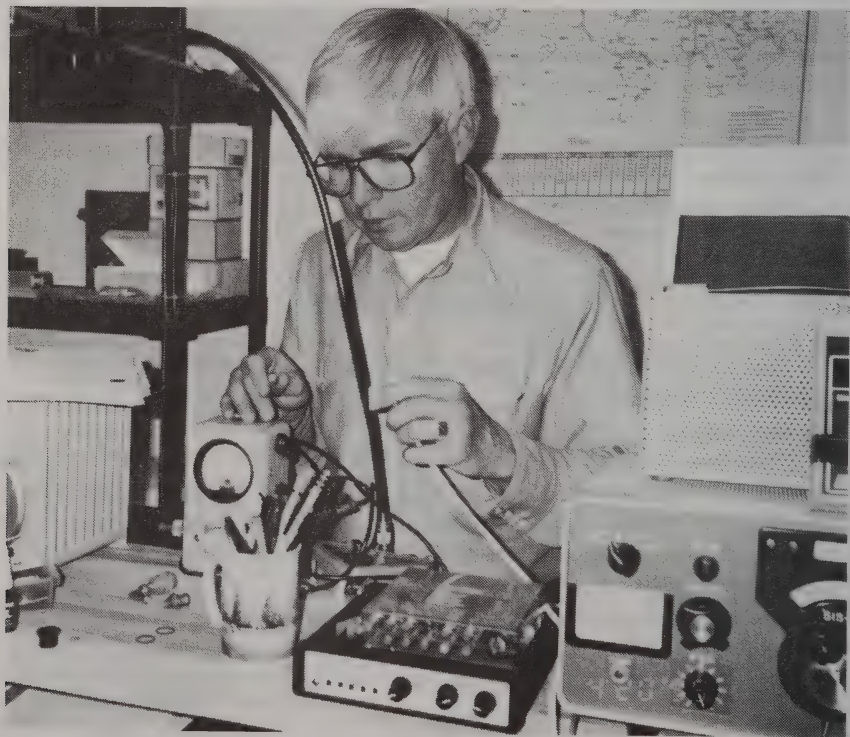
If you can help, contact them at 619-581-2042, or drop them a note at 4053 Honeycutt St., San Diego, CA 92109.

INTRODUCING -- W6NRE

It was a pleasure meeting George Bernard, W3NRE, the other day and to visit his hamshack in Goleta. Well, the hamshack, of course, is the main point of interest to a *Key-Klix* reporter, although to a non-ham the Yaesu, Collins, Loral, and other items pale into insignificance in the presence of the mind-boggling equipment that comprises the business of Balance Industries, George's company at 600 Botello Road on the Airport.

First licensed as K3GAJ in '57, George then held K4ZQZ and DL4UR before acquiring his present call in '68. His particular interest in ham radio, outside of trying to find and get cured some bleeping 2-meter and line hash noise problems, are the weak-signal VHF sub-bands as set forth in the ARRL band plan.

Here, "weak signal" is taken to mean CW and SSB modes, excluding FM. It does not necessarily mean QRP. There's a whole lot more to VHF than merely kerchunking, ragchewing, and phone-patching a local repeater! Maybe the skip doesn't bring in strange sounding signals with strange sounding calls (unless there's a satellite involved), but DX is where and how you find it.



To advance the enjoyment, utilization, and preservation of the weak signal sub-bands, a group of interested hams gathered together last September to organize and convene as the inaugural meeting of the Western States Weak Signal Society. Held at the Ventura County antenna ranch of president Ron Hammel, KC6WLC, you can hardly see the trees for the forest of his towers and poles pictured in the Proceedings! As of their April, 1995 Newsletter, the Society has grown to over 200 members in seven states. It seeks to attract new members and to educate the general Amateur radio community in the interests of the weak signal operator.

For further information, listen on 144.200 or on 144.240 USB 8 p.m. Sunday evenings, and tune around for CW. You do remember CW, don't you? Write to Western States Weak Signal Society, c/o David H. Peters, 14291 Middletown Lane, Westminster, CA 92683. Easier still, call 1-800-748-8208 (voice mail), or use E-Mail address: WSWSS aol.COM. Outside of those, give a listen for W6NRE and meet George.

73s de K6IA, *Key-Klix* Reporter

HELP WANTED

The **BAZAAR** crew is forming up for this year's blast on the **22nd of July**. And we will need, once again, all of the wonderful people who volunteer each year. These are the folks who clean and test and move and muscle things; the folks who really deliver for this Club and who make things happen (things that are otherwise impossible). Art Harris (N6GAT) will be available to take the names of those who want to be listed among those who work the miracles for this year's **BAZAAR**.

Be brave.....step right up and call him at 968-4017. Or find him at the Club meetings.

We also need help in putting together the **75th ANNIVERSARY ISSUE OF KEY-KLIX**. We need people who can put information together (you don't have to be a Pulitzer-Prize author) on the historical record of SBARC. Much of the work has been done up to 1980. Call Lou, N6ZJK, at 967-4859 or on the 146.79 repeater if you can do even a small task -- there's plenty to choose from!

SWAP MEET

If you have any ham-related items you'd like to sell, or if you're looking for something special, your listing in the *Key-Klix* Swap Meet column is free. Just get it to us and we'll insert it in the next issue. If you wish to run it in subsequent issues, a call to the Editor is all it takes! Send to 5546 Cathedral Oaks Rd., Santa Barbara, CA 93111 or call 967-4859.

MORE NEWS FROM THE ITCHY ALLIGATOR COMPUTER CENTER

The great leaps forward promised in the K6IA Morse Code Program CW8B went so fast that the 8B got left behind in the dust! And so many improvements piled up that it never stood still long enough to be issued.

The Staff is pleased to report that the newest version, CW9, is now ready for issue, and since the last Club meeting when a few choice members received copies, even that issue has been superseded.

The latest CW9, as of this writing (24 April) adds even more features to "randomize" source files and make them interactive with the user. With a whole bunch of control commands available, you can write and edit source files to your heart's content and never know exactly how they are going to sound out. All these features are now described in the new CW9 Handy Pocket Guide.

OK, folks, with help like this available, 20 wpm plus is within your reach, and you, too, can break out of the Forever Tech ranks. Hi!

If you'd like a copy of the system and the Handy Pocket Guide, give me a call and if I haven't run out of spare disks and paper, I'll be glad to oblige. All I ask is that you use it conscientiously, appreciating how much it cost to develop, and report back results.

73s de Austin, K6IA



Among all those wires and cables is Jay Hennigan, senior volunteer for R.A.I.N., setting up his display for the presentation at the April SBARC meeting on "Introduction to the Internet."

HIGHLIGHTS OF BOARD MEETING OF March 8, 1995

Submitted by Dave Hackleman, KC6VML

MEMBERS OF THE BOARD PRESENT: Darryl Widman, KF6DI; Marvin Johnston, KE6HTS; Harry Rouse, KE6EJU; Larry Cloer, KF6PO; Jack Goldsworthy, KA6EPF; Dave Hackleman, KC6VML; Bob Tangel, WD6ESU; Al Soenke, WA6VNN; Rhona Anderson, KE6FKA; Bill Talanian, W1UUQ; and guests: Matt Probert, KE6JRR; Dave Probert, KE6JRS; and Neil Villacorta, KE6DCJ

1. Meeting convened at 1910 hours.

OLD BUSINESS

2. Darryl reported that Dan Hanevich, WB6TWD, has agreed to stay on as Interference Committee Chairman. Jack outlined how any complaints or requests for help should be handled: 1) Politely get name, address, and phone number, 2) get a brief description of the problem, 3) make no promises, 4) inform them that we have a committee that handles these, 5) tell them that a member of the committee will contact them shortly, and 6) make sure Dan gets the data.

3. During his report on Field Day preparations, Dave Probert suggested the ARES Van be present during Field Day to generate publicity in light of ARES involvement during the recent floods. Darryl saw this also as an excellent opportunity to publicize *Key-Klix's* 75th anniversary. He also suggested to Dave Probert that he have refreshments on hand for visitors at the publicity booth and give them guided tours! The discussion ended, and the Proberts left for the evening.

NEW BUSINESS

4. Darryl announced that Jules regretfully resigned as VP Operations citing time constraints. Darryl recognized Jules for getting the year off to a great start. He then announced that Neil Villacorta stepped in to complete his term. The Board VOTED him into office. Mr. Villacorta will be assisted by Tiffany Buer, KE6JSC, and advised by Bob Ward, KB6CEY.

5. Darryl also announced that Greg Mishkin, N6HPB, resigned as Red Cross Liaison. Jack has offered to and will assume his duties.

6. Darryl announced that Lou Dartanner, N6ZKJ, will assume duties as Editor of *Key-Klix* with the March issue. Lou has been our editor before and has much experience with newsletters. Darryl praised outgoing Editor Ingrid Steele, KB6MQN, for a great job. In a meeting with Darryl, Bill, and Al, Ingrid expressed great relief at the change in light of her other responsibilities.

7. Marvin's BBS will serve as data transfer point for people submitting *Key-Klix* material. Lou's deadline for publication is 18 days before the Club meeting. Production, including printing, collating, stapling, and sorting for mailing, will be done 11 days before the meeting. Mailing will be done nine days before the meeting. She needs photographers, reporters for articles as well as short reports from any members on items or incidents of interest, and a 3-4 person production crew.

8. After discussion it was decided not to let books or magazines be checked out of the Club station. Members may make copies for a minimal charge on the Club

copier to help cover service costs. Larry, or one other when he's not there, will operate the copier at all times to prevent misuse.

9. Darryl reported that the Catalina Amateur Repeater Association is sponsoring a trip to Catalina Island, possibly in May, to visit the repeater site and learn about its operation, and window-shop in Avalon before returning home, and they would enjoy having us along. We could have a bus and depart from the Goleta Union School District parking lot at 6:00 a.m. to insure arriving by 9:00 in Long Beach to board the ferry, and possibly make other stops to pick up passengers. Date and cost per person yet to be determined.

10. Bill requested that the Club draw up a brochure that explains all about SBARC that could be given or made available to prospective members. This was last done in 1977. Estimated cost for development and production is \$100. Marvin will look for someone to take it on.

OFFICERS' REPORTS

Bob Tangel, VP Emergency Services

11.a. The 146.79 repeater was given over for emergency use to Ventura County for two days during the La Conchita landslide. It was good for SBARC members to observe them helping their community and witness how valuable the repeater is in emergencies.

11.b. ARES helped rescue two hikers last month that got separated from their group from Santa Barbara Middle School. Darryl mentioned that the Executive Director of the school, who allows us to hold upgrade classes there, was very appreciative.

DIRECTORS' REPORTS

Bill Talanian, Repeater Services

12.a. A new Astron power supply was installed at the La Vigia Hill site. This will supply power to all 12 volt systems there in addition to supplying a charging current to the 12 volt standby batteries. The new power supply proved itself by keeping the repeater online during a recent power surge that knocked out city communications there.

12.b. The 146.79 power amplifier failed again. Bill took it back to GE. The spare is in its place.

12.c. The Club's bill for the Club phone, autopatch, mailboxes, and personal secretaries has increased significantly due to a rate increase. Unit pricing may help reduce it and should be looked into.

12.d. The City of Santa Barbara Radio Shop Supervisor, Jim Britsch, was contacted to formulate plans for grounds keeping at the La Vigia Hill site. Once a formal agreement is in place our intention is to maintain the grounds in the vicinity of the communications shelters and towers.

12.e. The County OES has informed SBARC that approval has been granted to move the 145.05 MHz digipeater from La Cumbre Peak to the County of Santa Barbara site at La Cumbre Peak West. It is anticipated that this change could be effected by mid 1995. Our first task will be to install the underground conduit before the ground hardens.

Jack Goldsworthy, Club Station

13.a. The Club helped pass traffic March 5 for the Red Cross during the La Conchita mudslide.

13.b. A 6-meter 3-element beam has been donated and will be installed soon.

14. Jack moved to adjourn. Rhona seconded. Approved. Meeting adjourned at 2258 hours.

David P. Hackleman, Secretary

Darryl Widman, President

FIELD TRIP TO TRW -- APRIL 29th

The trip to TRW proved to be a great success and thanks to all who participated!!! It started out at the unreal time of about 4:00 a.m. with people getting together and leaving Santa Barbara. Dave (KD6DXR) volunteered his truck to carry stuff down and take care of the selling spot for those people selling. Dennis (WB6OBB) volunteered to drive down and take a group of us along :)*, and Bill (WB6WCW) took another group of people down. We sort of stayed in touch using K6TZ while it was reachable and then we switched to 146.520 simplex once we passed Conejo Grade. (Continued on next page.)

HURRY! HURRY! HURRY! SIGN UP NOW!

If you're not an SBARC member, WHY NOT? You don't even need to be a licensed Amateur to be a Limited Member (SWL or Short Wave Listener). Send your check for \$12.00 (made out to SBARC) and the completed application to the Club at P.O. Box 3232, Santa Barbara, CA 93130-3232.

SBARC '95 -- Be A Part Of It!

(PLEASE PRINT)

NAME: _____

CALL SIGN: _____

Add: _____

City: _____

Zip: _____

Phone -Home: _____

Membership: ☐ Renewal

-Business: _____

☐ New ☐ Limited (SWL) ☐

ARRL Member: ☐ Yes ☐ No **Expiration Date:**
(QST LABEL)

FCC Amateur License: ☐ Novice ☐ Technician

☐ General ☐ Advanced

Expiration Date: ☐ Extra Class

I hereby apply for membership or renewal in the Santa Barbara Amateur Radio Club, Inc. and agree to abide by the Bylaws and Rules of the Club.

Date: _____

Applicant's Signature _____

(FILL IN COMPLETE—IT IS IMPORTANT THAT WE HAVE THIS INFORMATION)

(Over)

Dave got into the sellers' line sometime around 6:15 or so and was about in the middle of the pack. The most of the selling was handled by Dave (KD6DXR), Dave (KE6KBX), and Hubert (KC6NAH).

We all had a chance to "check out" the area and there was a lot of good "stuff" being sold, including new and used ham equipment, HT batteries, electronic kits, test equipment, computers, computer components, tools, gadgets, refreshments (!), antique electronics, books, name tags and hats with your call-sign engraved/embossed, connectors... This list could go on for quite a while, but this *brief* list should give an idea of the diversity of things being offered.

An easy T-hunt began at noon with Dennis (WB6OBB) and I forming one team and Dave (KE6JRS) and Matt (KE6JRR) forming a second team. Dennis and I were terrorized by unexpected problems, but we found out a few things: 1) it is *much* easier to hear the signal on the radio of the antenna is connected to the radio being listened to, and 2) the antenna will generally work better if the wires connecting to the antenna are not broken! After finding and fixing those problems, we headed out in the right direction, but were skeptical about our equipment!!! We headed back to the car, and found Dave and Matt. Since we knew the right direction to go in, we all got in the car and started tracking the signal. As we drove by the area, Dennis told us when it was within a 100 yards or so, along with the direction, so we again all started out on foot. This time Matt was the first to find it and came in third place overall.

Many thanks to Art (N6GAT), Bill (WB6WCW), Dave (KD6DXR), Dave (KE6JRS), Dave (KE6KBX), Dennis (WB6OBB), Harry (KE6EJU), Hubert (KC6NAH), Matt (KE6JRR), and John (not yet a ham), for helping to make this a great time for all!

* The :) is called an emoticon and denotes a "tongue-in-cheek" statement. It is commonly used when typing messages on-line. Turn your head to the left and you will see two eyes and a smile.

Marv, KE6HTS

INTEREST QUESTIONNAIRE

(Circle)

Are you interested in participating in any of the following activities?:

- | | | |
|--|-----|----|
| 1. Club Management or Amateur Radio Events. | YES | NO |
| 2. Club Sponsored Projects. | YES | NO |
| 3. Emergency or Public Service Communications. | YES | NO |
| 4. Repeater(s): Service, Control Operations. | YES | NO |
| 5. Community Events: Parades, Bike-A-Thons, Etc. | YES | NO |
| 6. Volunteer Examiner Program | YES | NO |

- CLUB USE ONLY -

INITIAL DATE

	Treasurer _____
SBARC	Membership Chairman _____
APPLICATION	VP Emergency Services _____
ROUTING:	VP Operations _____
	Data Base Mgr. _____
	Assigned Membership Number _____
	(over)

SBARC REV.A 11/88

CALENDAR**MAY 1995**

- 13 V.E. Session, Elks' Lodge, Goleta, 8:30 a.m.
- 19 **SBARC MEETING**, 7:30 p.m., Co. Schools Auditorium
- 20 Tour de Cure Special Event
- 20 Introduction to Contesting, 9:00 a.m., S.B. Middle School
- 22 Field Day Station Managers' meeting, 7:00 p.m. Goleta Library
- 29 **KEY-KLIX** Deadline for June issue

JUNE 1995

- 4 S.B. Jr. Triathlon Special Event
- 7 SBARC Board Meeting, 7:00 p.m.
- 10 Beginners' T-Hunt, 7:30 p.m., Stowe House, Goleta
- 12 ARES General Meeting, 7:30 p.m., Elks' Lodge
- 15 Field Day participants' meeting, 7:00 p.m., Goleta Library
- 23-25 FIELD DAY**
- 25 MS Summer BikeFest Special Event

JULY 1995

- 3 **KEY-KLIX** Deadline for July issue
- 8 V.E. Session, 8:30 a.m., Elks' Lodge, Goleta
- 8 Beginners' T-Hunt, 7:30 p.m., Stowe House, Goleta
- 9 Field Trip to Catalina Island
- 12 SBARC Board Meeting, 7:00 p.m.
- 22 SBARC BAZAAR**
- 31 **KEY-KLIX** Deadline for August issue

AUGUST 1995

- 4 Old Spanish Days Fiesta Special Event
- 5 Old Spanish Days Children's Parade Special Event
- 9 SBARC Board Meeting, 7:00 p.m.
- 12 Beginners' T-Hunt, 7:30 p.m., Stowe House, Goleta
- 13 SBARC HAMFEST**
- 14 ARES General Meeting, 7:00 p.m., Elks' Lodge
- 19 MS Bike-Along-The-Beach Special Event
- 26 Santa Barbara Sr. Triathlon, East Beach
- 28 **KEY-KLIX** DEADLINE for September issue





SANTA BARBARA AMATEUR RADIO CLUB
P.O. Box 3232
Santa Barbara, CA 93130-3232

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MAY MEETING

Fried Heyn, WA6WZO
Southwestern Division Director

"The A.R.R.L."

Friday, May 19, 1995

7:30 p.m.

County Schools Admin. Auditorium
4400 Cathedral Oaks Rd.

Talk-in on 146.19/.79

Visitors are cordially invited!

MOVING? PLEASE LET THE CLUB KNOW

